

App. No. 10/626,502
Office Action Dated April 21, 2006

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IN THE CLAIMS

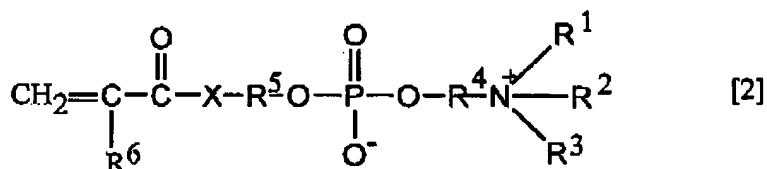
Amendments To The Claims:

This Listing of Claims will replace all prior versions and listings of claims in the application. No new matter is added.

Claims 1 and 11 are amended.

Listing of Claims:

1. (Currently Amended) An immunoassay method of a prostate-specific antigen comprising:
performing an antigen-antibody reaction in the presence of a copolymer obtained by polymerizing a monomer represented by the following general formula [2]:



wherein, R¹-R³ are each independently a hydrogen atom or an alkyl group optionally having a hydroxyl group; R⁴ is an alkylene group; R⁵ is an alkylene group optionally having a substituent and optionally having an oxygen atom in the chain; R⁶ is a hydrogen atom or a methyl group; and X is an oxygen atom or a -NH- group, and an aralkyl methacrylate or derivatives thereof; and

determining the presence of prostate-specific antigen based on the antigen-antibody reaction.

2-7. (Canceled)

8. (Previously presented) The immunoassay method according to claim 1, wherein the aralkyl methacrylate is benzyl methacrylate.

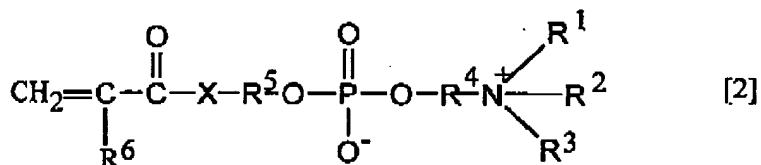
9. (Previously presented) The immunoassay method according to claim 8, wherein a ratio of the monomer unit derived from the monomer represented by the general formula [2] in the copolymer is 20% or more but less than 100%.

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10. (Previously presented) The immunoassay method according to claim 9, wherein a molecular weight of the polymer is 10,000 to 1,000,000.

11. (Currently amended) A kit of reagent for immunoassay of a prostate-specific antigen comprising:

a reagent containing a copolymer obtained by polymerizing a monomer represented by the following general formula [2]:



wherein, R¹-R³ are each independently a hydrogen atom or an alkyl group optionally having a hydroxyl group; R⁴ is an alkylene group; R⁵ is an alkylene group optionally having a substituent and optionally having an oxygen atom in the chain; R⁶ is a hydrogen atom or a methyl group; and X is an oxygen atom or a -NH- group, and

~~an aralkyl methacrylate or derivatives thereof; and~~

a reagent containing an antibody to a prostate-specific antigen or a prostate-specific antigen.

12. (Original) The kit according to claim 11, wherein the antibody to a prostate-specific antigen or the prostate-specific antigen is supported on a carrier.

13. (Canceled)

14. (Previously presented) The kit according to claim 12, wherein the carrier is latex.

15. (Canceled)

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16. (Previously presented) The kit according to claim 11, wherein the aralkyl methacrylate is benzyl methacrylate.